

17157 U.S. PTO  
031204

**UTILITY PATENT APPLICATION TRANSMITTAL**  
(only for new and continuation-in-part nonprovisional applications  
under 37 CFR 1.53(b))

Client-Matter No.:  
66692-097

Address: Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

"Express Mail" Mailing Label Number: EV 400 552 185 US

Date Of Deposit: March 12, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Printed Name of Person Mailing Paper or Fee: Marilyn Bynum

Signature of Person Mailing Paper or Fee

22387 U.S. PTO  
10/799934

031204

This is a request for filing a

- ☒ new utility patent application under 37 CFR 1.53(b).  
☐ continuation-in-part under CFR 1.53(b)(2) of prior application serial no. \_\_\_\_\_,  
filed \_\_\_\_\_ (list entire parentage).

Title: **NUCLEAR MAGNETIC RESONANCE ASSEMBLY OF CHEMICAL ENTITIES  
USING ADVANCED ANTENNA PROBES**

Inventor(s)(full name of each inventor): Mark Kelly  
Hugo Villar  
Jianqiang Wang  
Min S. Lee  
Yong Quin  
Daniel S. Sem

Enclosed are:

- ☒ Return receipt postcard  
☐ Patent Application Bibliographic Data Sheet  
☒ 1 Page application cover sheet  
☒ 134 Pages of specification (includes claims and abstract)  
☒ 22 Sheets of drawing(s)  
☐ Pages of an executed Declaration for Patent Application  
☐ An executed Power of Attorney for Patent Application by Assignee  
☐ Paper copy of sequence listing, pages - through  
☐ Sequence listing in computer readable form  
☐ Statement Under 37 CFR 1.821(f)  
☐ An executed assignment and cover sheet  
☐ An executed Statement Under 37 CFR 3.73(b)  
☐ An executed small entity statement  
☐ Request for Nonpublication and Certification  
☐ Also enclosed:  
☐ This application is based on prior foreign application(s) No.(s) \_\_\_\_\_, filed in  
\_\_\_\_\_ on \_\_\_\_\_, respectively, and priority is hereby claimed therefrom.  
☒ This application is based on, and claims the benefit of, U.S. Provisional Application No.  
60/455,610, filed March 13, 2003, and entitled NUCLEAR MAGNETIC RESONANCE  
ASSEMBLY OF CHEMICAL ENTITIES USING ADVANCED ANTENNA PROBES,  
and which is incorporated herein by reference.  
☐ This application is based on, and claims the benefit of, U.S. Provisional Application No.  
60/\_\_\_\_\_ (yet to be assigned), filed \_\_\_\_\_, which was converted from U.S.

Inventor(s): Kelly et al.  
Docket No.: 66692-097  
Filed: Herewith  
Page 2

Serial No. \_\_\_\_\_, and entitled \_\_\_\_\_, and which is incorporated herein by reference.

The filing fee has been calculated as shown below:

					Rate		Fee	
	Number Filed		Number Extra		Small Entity	Other Entity	Small Entity	Other Entity
Total Claims	90 - 20	=	70	x	\$9	\$18	\$	\$
Indepen- dent Claims	- 3	=		x	\$43	\$86	= \$	\$
Multiple Dependent Claims Presented: _ Yes _ No					\$145	\$290	\$	\$
					BASIC FEE		\$385	\$770
					TOTAL FEE		\$	\$

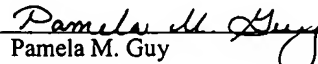
- ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$\_\_\_\_, \$\_\_\_\_\_ which covers the filing fee, and \$130.00 for the fee for filing a petition requesting acceptance of color drawings. A duplicate copy of this sheet is enclosed.
- ☒ The payment of the filing fee is to be deferred until the Declaration is filed. Do not charge our deposit account.
- ☐ The Commissioner is hereby authorized to charge fees under 37 CFR 1.16 and 1.17 which may be required or credit any overpayment to Deposit Account No. 502624. A duplicate copy of this sheet is enclosed.

Address all future communications to:

Cathryn Campbell  
McDERMOTT, WILL & EMERY  
4370 La Jolla Village Drive, 7<sup>th</sup> Floor  
San Diego, California 92122  
telephone:(858) 535-9001  
facsimile:(858) 535-8949

Respectfully submitted,

March 12, 2004  
Date

  
Pamela M. Guy  
Registration No. 51,228  
Telephone No.: (858) 535-9001  
Facsimile No.: (858) 535-8949

McDERMOTT, WILL & EMERY  
4370 La Jolla Village Drive, Suite 700  
San Diego, California 92122